

# Portola Hills Traffic Workshop 2

November 15, 2012



One Team. Infinite Solutions



# Discussion of Issues

1. Results of Traffic/Community Concerns
2. Community Issues
  - Saddleback Ranch Road Sight Distance
  - Portola Hills Elementary School
3. Project Access Location Alternatives

# Results of Traffic/Community Concerns

A. Traffic Counts

B. Trip Generation Rate

C. Project Trip Distribution

D. Cut-Through Traffic

E. Future Growth

F. Safety Review

(accident history and “near misses”)

G. Traffic Study Peer Review

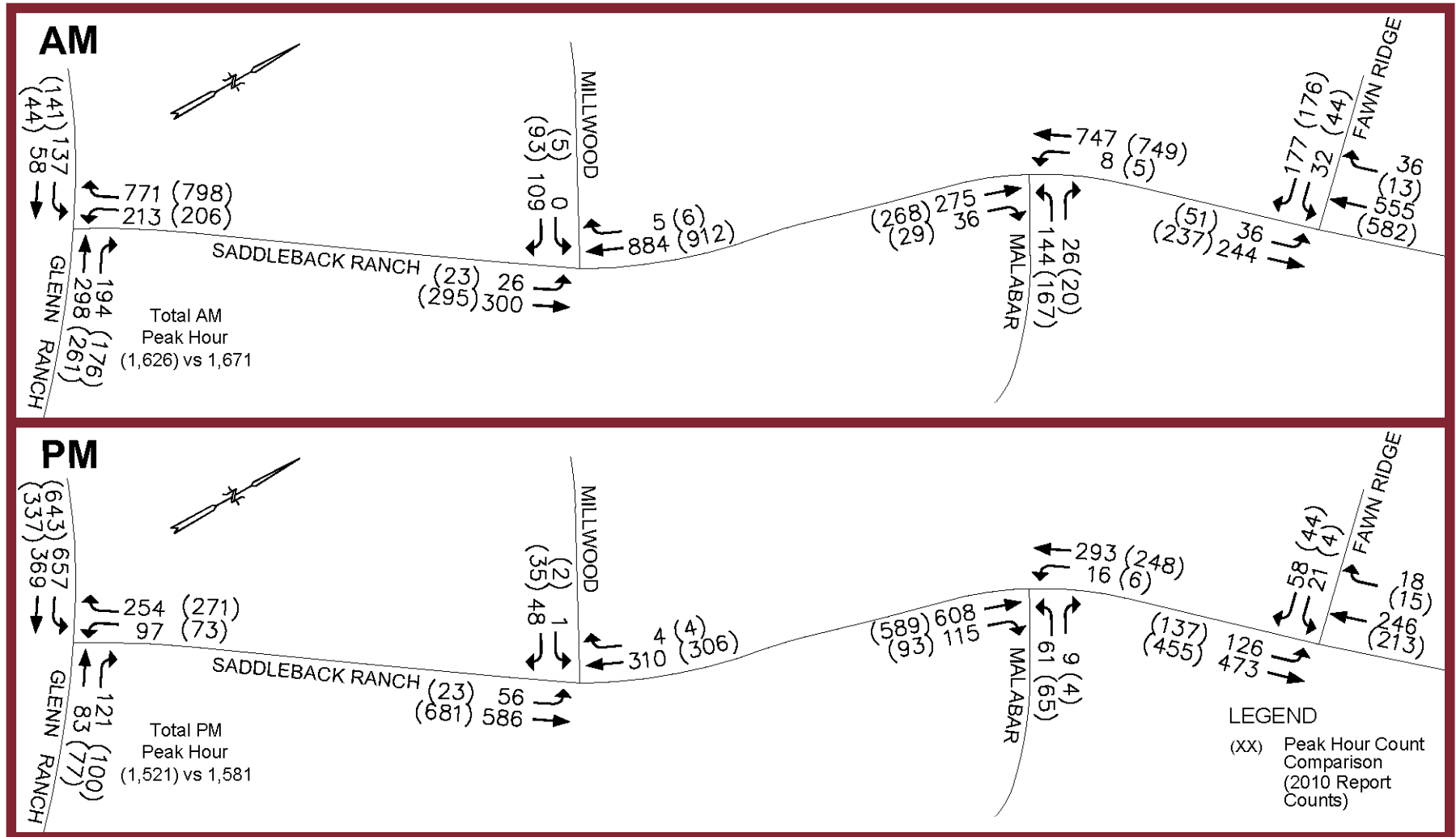
(at a later date)

# Traffic Counts (2010 versus 2012) on Saddleback Ranch Road

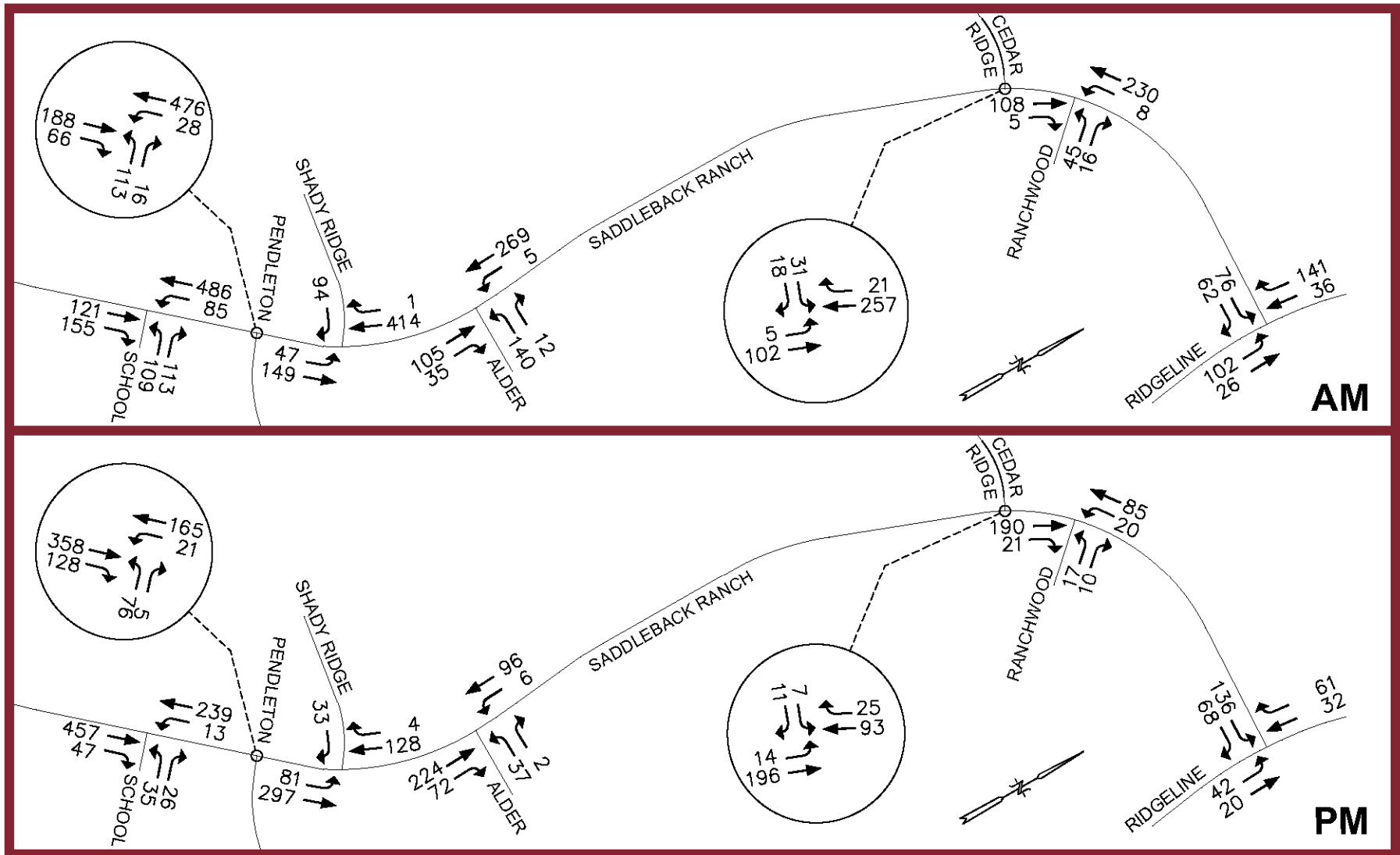
- Average Daily Traffic (ADT)  
12,800 versus 13,200 (+3%)
- Peak Hour Volumes, Vehicles Per Hour (vph)  
AM 1,626 vph versus 1,671 vph (+3%)  
PM 1,521 vph versus 1,581 vph (+4%)



# Existing Peak Hour Volumes – South SRR



# Existing Peak Hour Volumes – North SRR



# Trip Generation Rate

- Institute of Transportation Engineers (ITE) 9<sup>th</sup> Edition ADT Rate for single family detached (SFD) 9.52
- Portola Center Traffic Study Rate for SFD 9.57
- Field Study (based on existing counts) 9.54



# Project Trip Distribution



# Cut-Through Traffic

# 10%

Based on license plate matches, cut-through traffic accounted for 10 percent of the total traffic during the AM and PM peak periods between:

Ridgeline Road at Santiago Canyon Road



Saddleback Ranch Road at Glenn Ranch Road

# Future Growth

The future analysis conditions include three major project developments that could potentially contribute traffic in Portola Hills:

- Saddle Crest Project – 65 units  
(Unincorporated County)
- Santiago Hills II & East Orange Projects  
– 4,000 units & 212 acres of commercial  
(Unincorporated County)
- Sky Ridge – 84 units (Mission Viejo)



The map illustrates the East Orange General Plan (EOGP) Boundary, which encompasses several key areas:

- East Orange Planned Community (EOPC):** - 2,300 units & 212 acres of commercial. This area is divided into:
  - EOPC Area 1 Site:** Located on the western side of the boundary.
  - EOPC Area 2 Site:** Located in the northern-central part of the boundary.
- Santiago Hills II Planned Community (SHIIPC) Site:** - 1,700 units. Located on the western side, south of EOPC Area 1.
- Saddle Crest:** - 65 units. Located to the east of the main boundary.
- Sky Ridge:** - 84 units. Located further east, near the Skyway.

The map also shows major roads including SR-241, SR-242, SR-243, SR-244, SR-245, SR-246, SR-247, SR-248, SR-249, SR-250, SR-251, SR-252, SR-253, SR-254, SR-255, SR-256, SR-257, SR-258, SR-259, SR-260, SR-261, SR-262, SR-263, SR-264, SR-265, SR-266, SR-267, SR-268, SR-269, SR-270, SR-271, SR-272, SR-273, SR-274, SR-275, SR-276, SR-277, SR-278, SR-279, SR-280, SR-281, SR-282, SR-283, SR-284, SR-285, SR-286, SR-287, SR-288, SR-289, SR-290, SR-291, SR-292, SR-293, SR-294, SR-295, SR-296, SR-297, SR-298, SR-299, SR-300, SR-301, SR-302, SR-303, SR-304, SR-305, SR-306, SR-307, SR-308, SR-309, SR-310, SR-311, SR-312, SR-313, SR-314, SR-315, SR-316, SR-317, SR-318, SR-319, SR-320, SR-321, SR-322, SR-323, SR-324, SR-325, SR-326, SR-327, SR-328, SR-329, SR-330, SR-331, SR-332, SR-333, SR-334, SR-335, SR-336, SR-337, SR-338, SR-339, SR-340, SR-341, SR-342, SR-343, SR-344, SR-345, SR-346, SR-347, SR-348, SR-349, SR-350, SR-351, SR-352, SR-353, SR-354, SR-355, SR-356, SR-357, SR-358, SR-359, SR-360, 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SR-736, SR-737, SR-738, SR-739, SR-740, SR-741, SR-742, SR-743, SR-744, SR-745, SR-746, SR-747, SR-748, SR-749, SR-750, SR-751, SR-752, SR-753, SR-754, SR-755, SR-756, SR-757, SR-758, SR-759, SR-760, SR-761, SR-762, SR-763, SR-764, SR-765, SR-766, SR-767, SR-768, SR-769, SR-770, SR-771, SR-772, SR-773, SR-774, SR-775, SR-776, SR-777, SR-778, SR-779, SR-780, SR-781, SR-782, SR-783, SR-784, SR-785, SR-786, SR-787, SR-788, SR-789, SR-790, SR-791, SR-792, SR-793, SR-794, SR-795, SR-796, SR-797, SR-798, SR-799, SR-800, SR-801, SR-802, SR-803, SR-804, SR-805, SR-806, SR-807, SR-808, SR-809, SR-810, SR-811, SR-812, SR-813, SR-814, SR-815, SR-816, SR-817, SR-818, SR-819, SR-820, SR-821, SR-822, SR-823, SR-824, SR-825, SR-826, SR-827, SR-828, SR-829, SR-830, SR-831, SR-832, SR-833, SR-834, SR-835, SR-836, SR-837, SR-838, SR-839, SR-840, SR-841, SR-842, SR-843, SR-844, SR-845, SR-846, SR-847, SR-848, SR-849, SR-850, SR-851, SR-852, SR-853, SR-854, SR-855, SR-856, SR-857, SR-858, SR-859, SR-860, SR-861, SR-862, SR-863, SR-864, SR-865, SR-866, SR-867, SR-868, SR-869, SR-870, SR-871, SR-872, SR-873, SR-874, SR-875, SR-876, SR-877, SR-878,

# Safety Review (accident history and “near misses”)

# 12

Number of reported accidents on Saddleback Ranch Road between 2009 – 2012 according to the Statewide Integrated Traffic Records System (SWITRS).

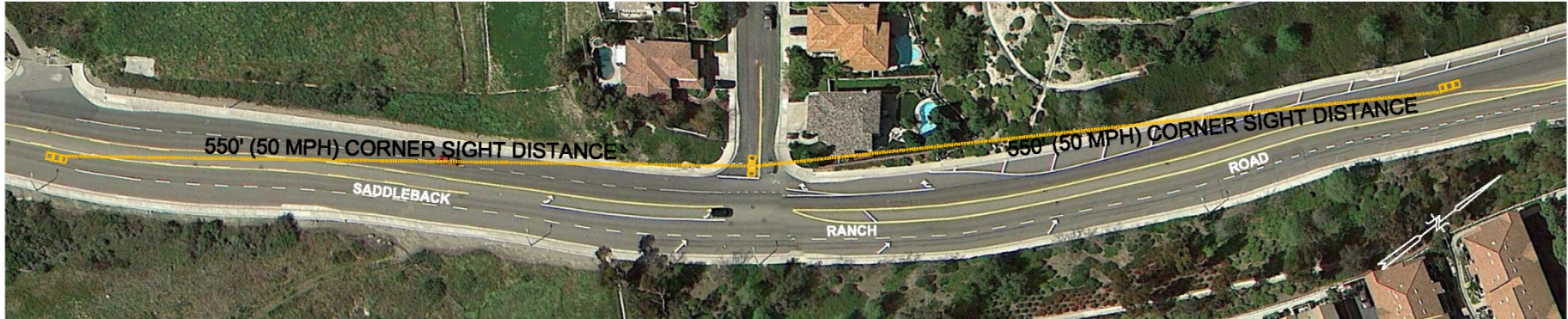
- 5 at Fawn Ridge Road
- 2 at Shady Ridge Lane
- 1 at Malabar Road
- 1 at Millwood Road
- 1 at Pendleton Road
- 1 at Alder Way
- 1 at Ranchwood Way

“Near misses” field  
review

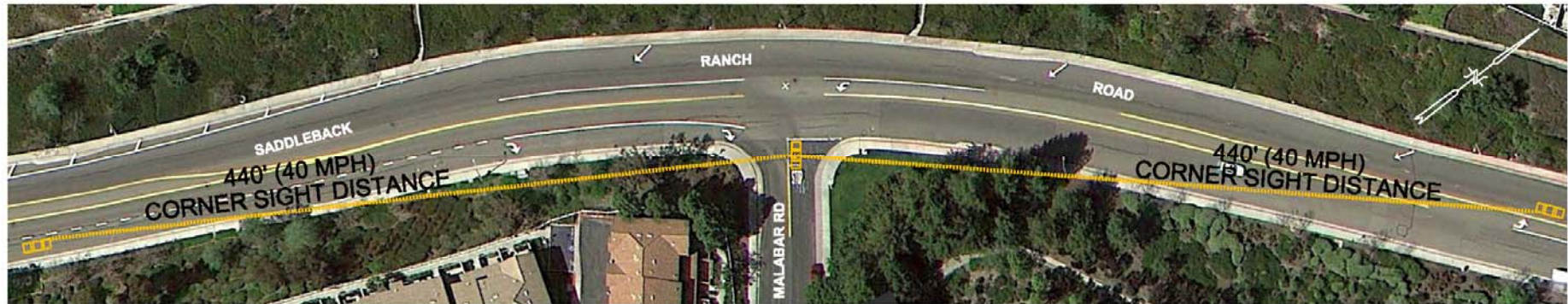


# **Community Issues on Saddleback Ranch Road**

# Sight Distance at Millwood Road and Saddleback Ranch Road



# Sight Distance at Malabar Road and Saddleback Ranch Road

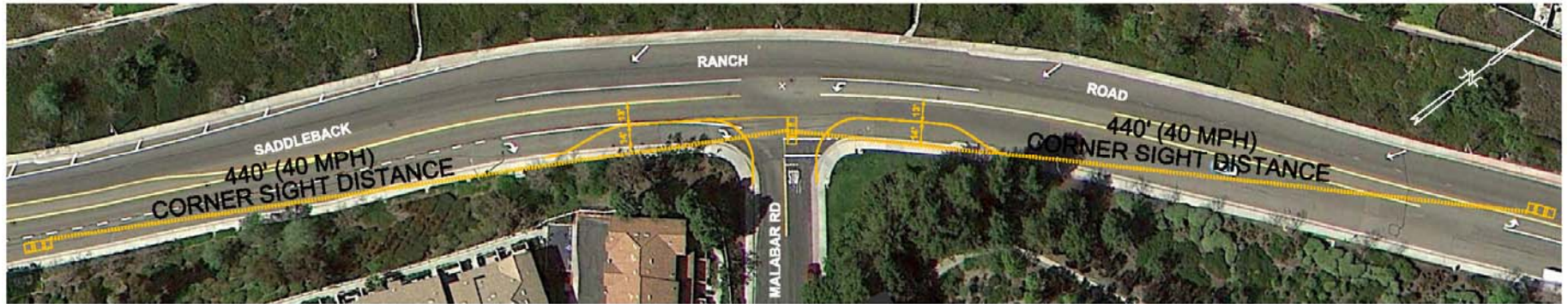


# Bulb-out at Millwood Road

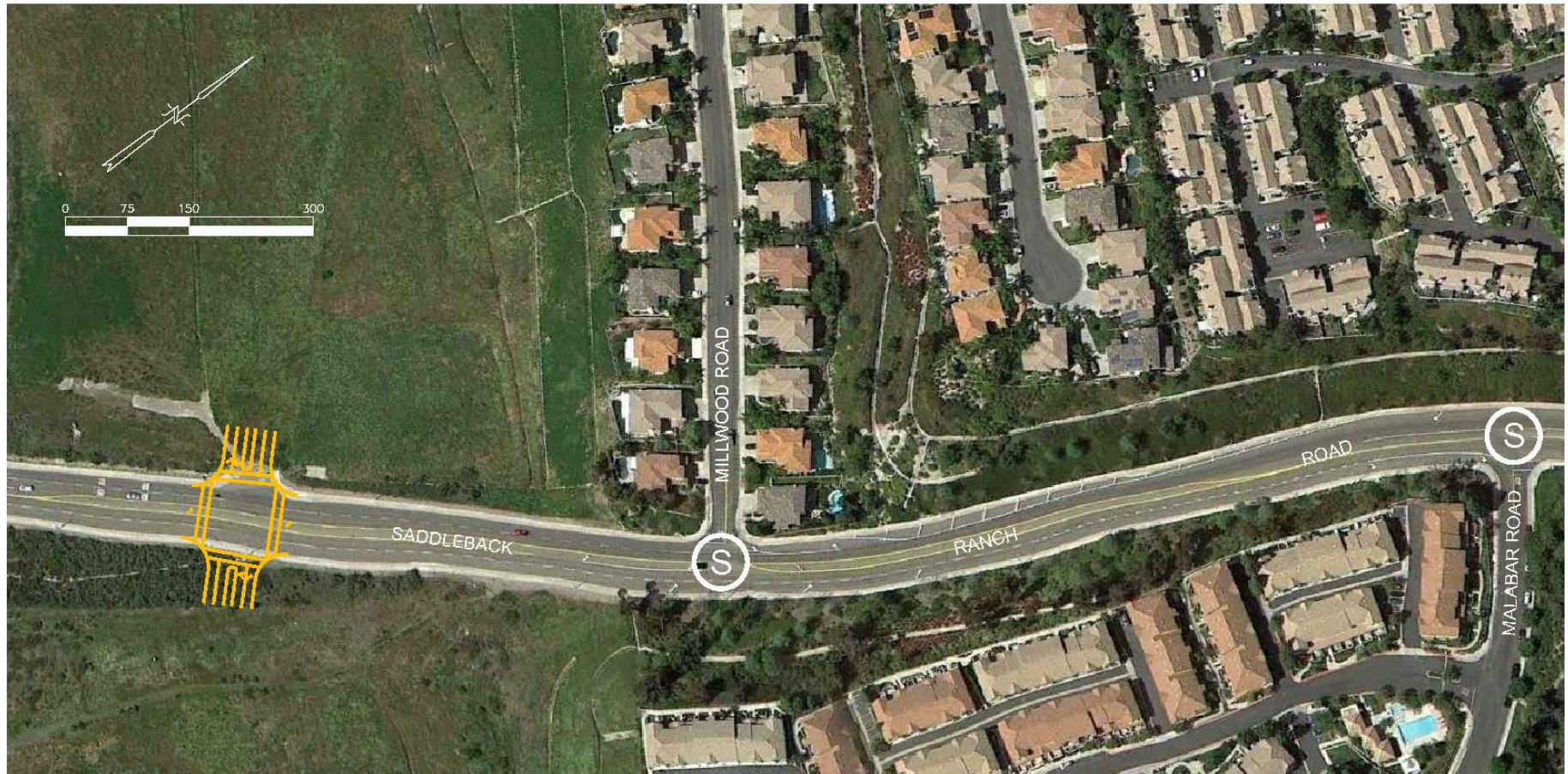




# Bulb-out at Malabar Road



# New signal at Millwood Road and/or Malabar Road





# Sight Distance at Pendleton Road



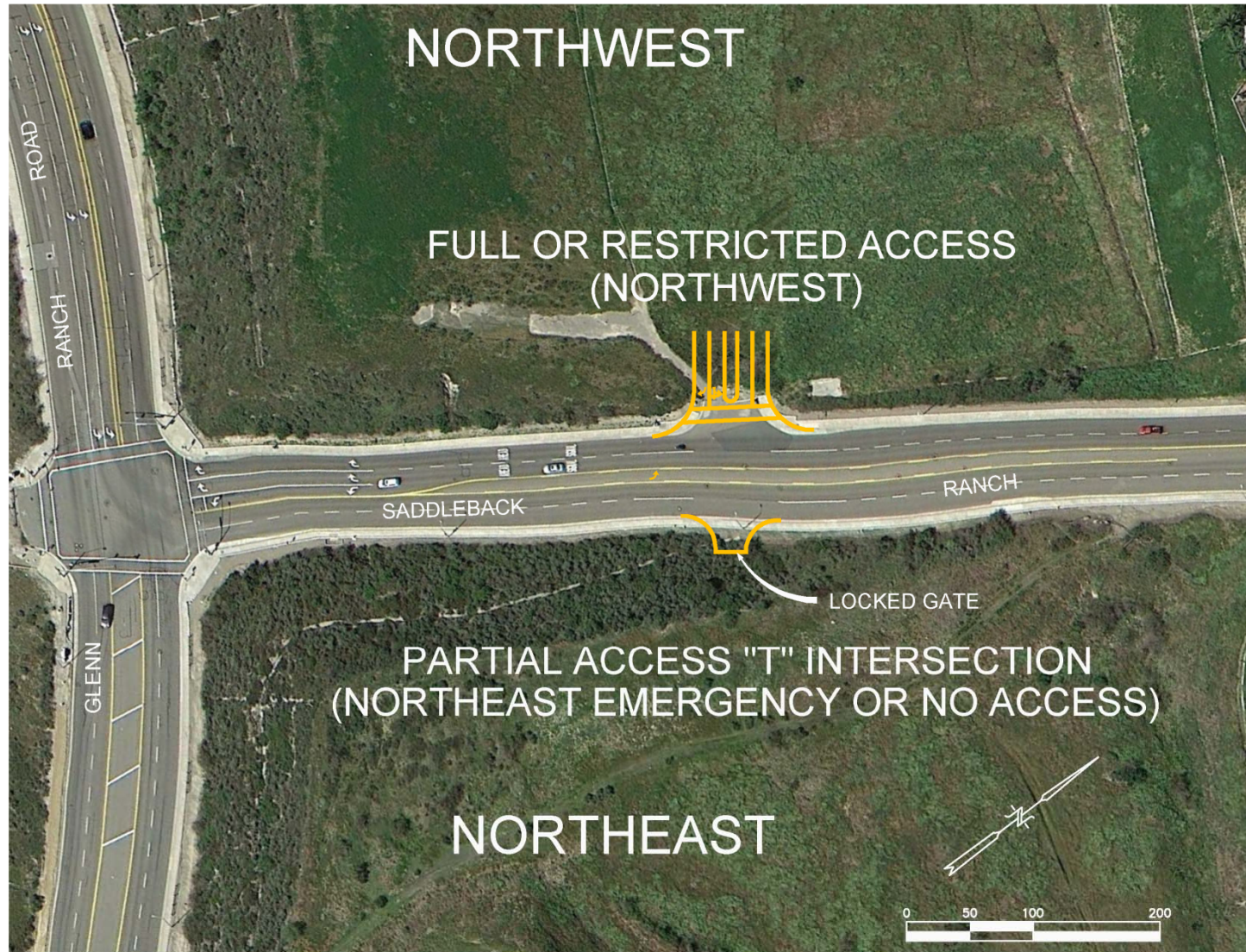


# Portola Hills Elementary School Access and Circulation and Pendleton Road



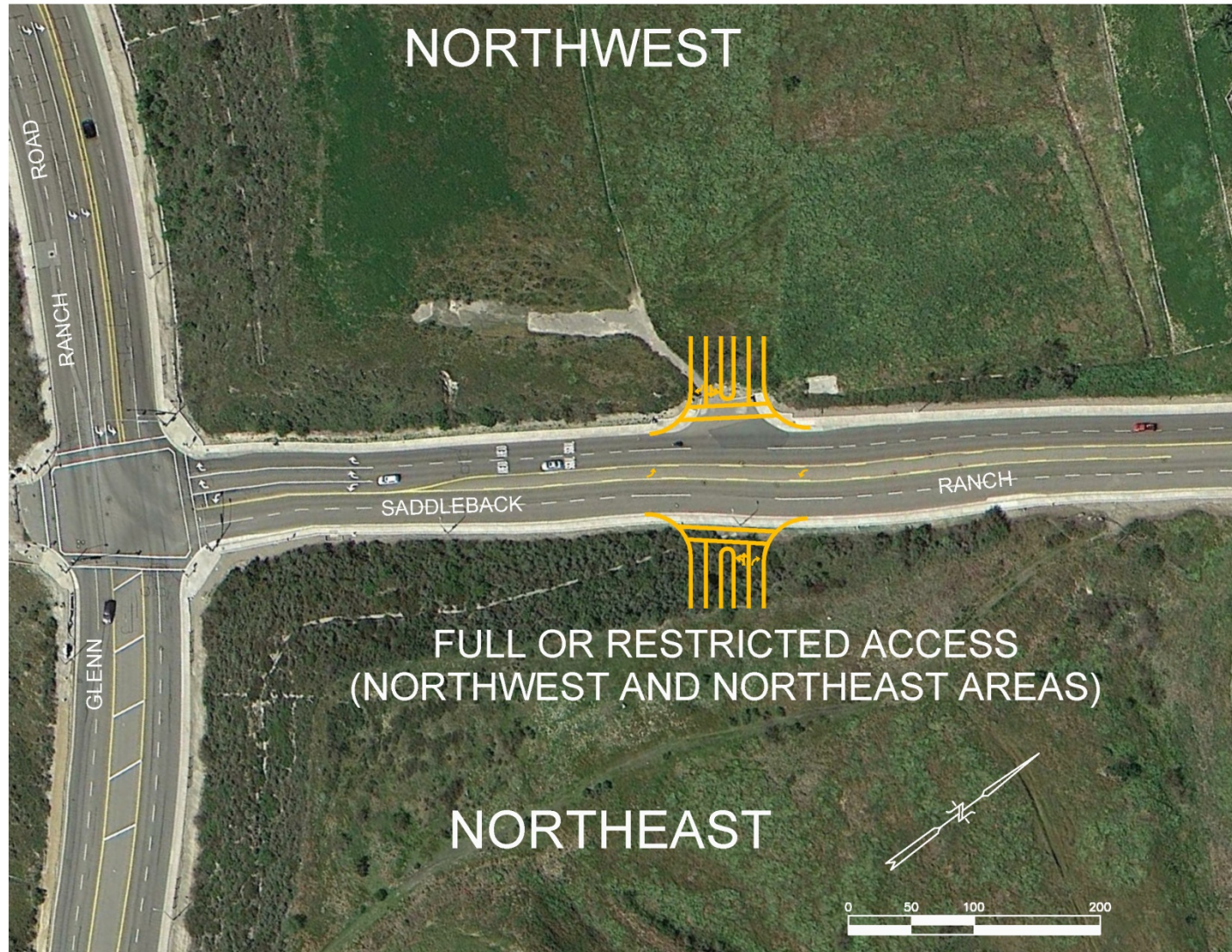


# Alternative 1 – T-intersection on SRR to serve the northwest



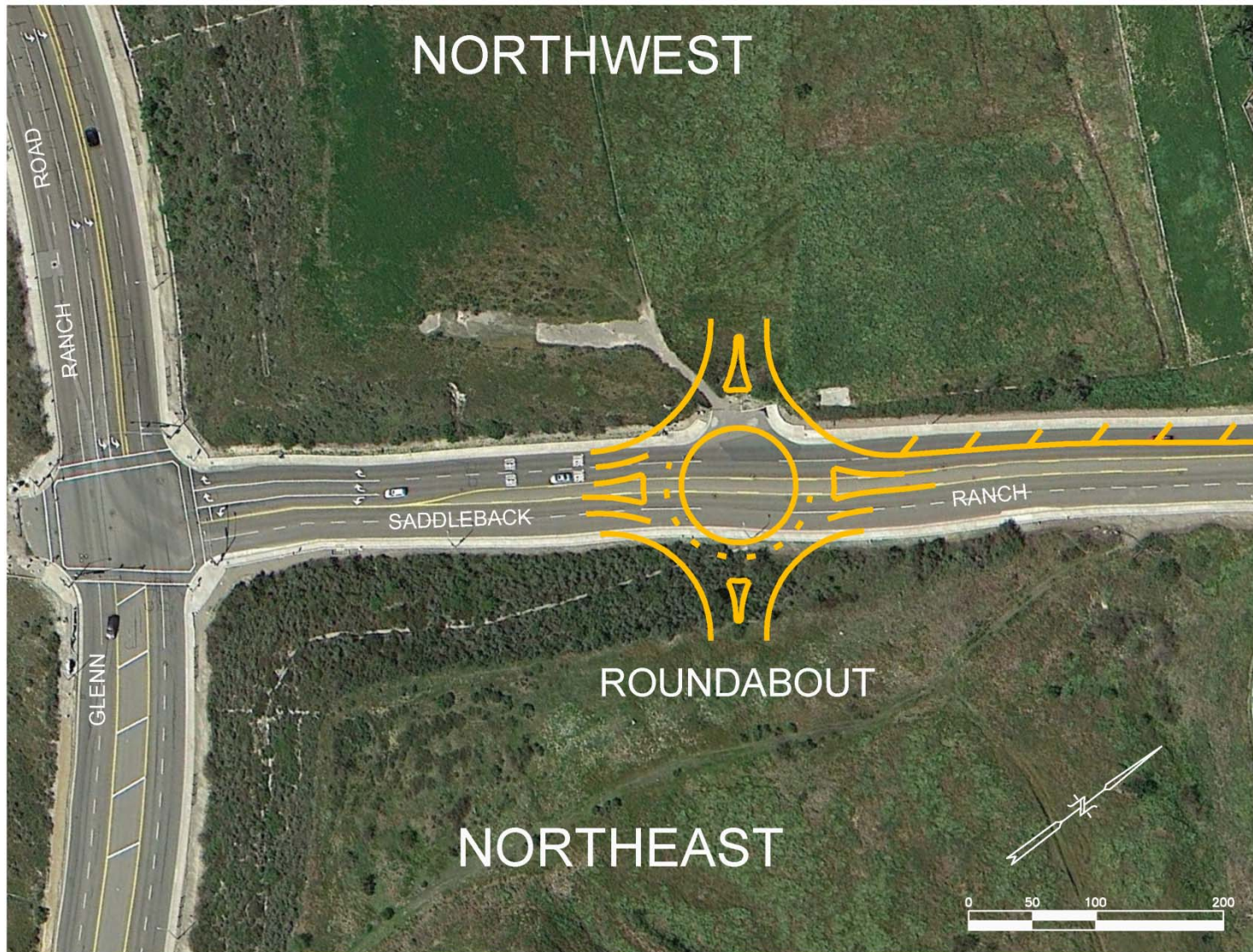


# Alternative 2 – Four-way on SRR to serve the northwest and northeast



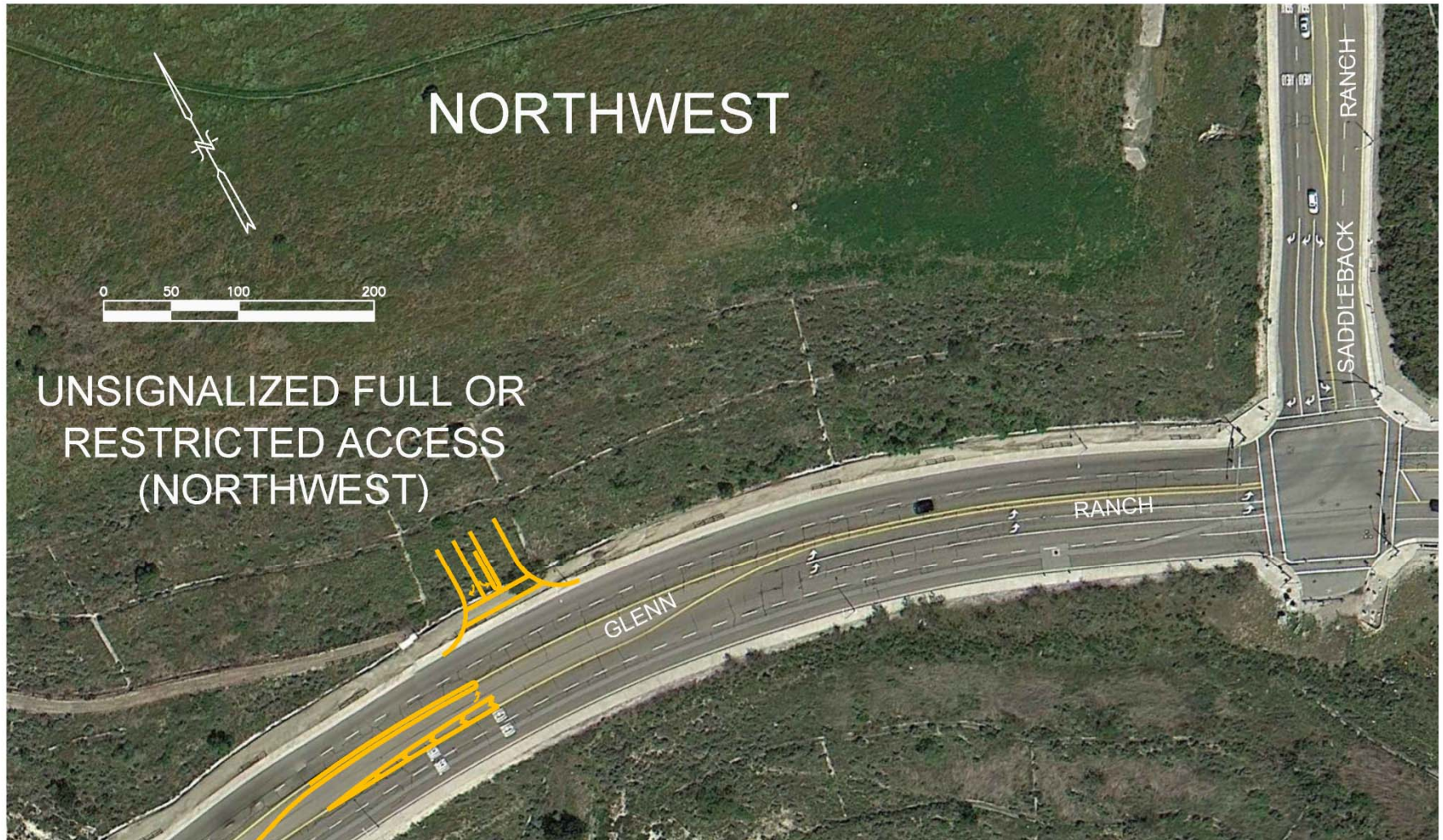


# Alternative 3 – Roundabout on SRR to serve the northwest and northeast





# Alternative 4 – T-intersection on Glenn Ranch Road to serve the northwest





# Alternative 5 – Four-way on Glenn Ranch Road to serve the northeast and south





# Comparable Residential Area





# Portola Center Access Alternatives



# **Portola Center Access Feasibility Evaluation Matrix**



# Community Survey

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